PROFIT AND LOSS- Important Formulas

IMPORTANT FACTS:

Cost Price:

The price, at which an article is purchased, is called its **cost price**, abbreviated as **C.P.**

Selling Price:

The price, at which an article is sold, is called its **selling prices**, abbreviated as **S.P.**

Profit or Gain:

If S.P. is greater than C.P., the seller is said to have a **profit** or **gain**.

Loss:

If S.P. is less than C.P., the seller is said to have incurred a loss.

IMPORTANT FORMULAE

- 1. Gain = (S.P.) (C.P.)
- 2. Loss = (C.P.) (S.P.)
- 3. Loss or gain is always reckoned on C.P.
- 4. Gain Percentage: (Gain %)

Gain % =
$$\left(\frac{\text{Gain x 100}}{\text{C.P.}}\right)$$

5. Loss Percentage: (Loss %)

Loss % =
$$\left(\frac{\text{Loss x 100}}{\text{C.P.}}\right)$$

6. Selling Price: (S.P.)

$$SP = \left[\frac{(100 + Gain \%)}{100} \times C.P\right]$$

7. Selling Price: (S.P.)

$$SP = \left[\frac{(100 - Loss \%)}{100} \times C.P.\right]$$

8. Cost Price: (C.P.)

C.P. =
$$\left[\frac{100}{(100 + \text{Gain \%})} \times \text{S.P.}\right]$$

9. Cost Price: (C.P.)

C.P. =
$$\frac{100}{100}$$
 x S.P.

- 10. If an article is sold at a gain of say 35%, then S.P. = 135% of C.P.
- 11. If an article is sold at a loss of say, 35% then S.P. = 65% of C.P.
- 12. When a person sells two similar items, one at a gain of say x%, and the other at a loss of x%, then the seller always incurs a loss given by:

Loss % =
$$\left(\frac{\text{Common Loss and Gain \%}}{10}\right)^2 = \left(\frac{x}{10}\right)^2$$
.

13. If a trader professes to sell his goods at cost price, but uses false weights, then

Gain % =
$$\left[\frac{\text{Error}}{(\text{True Value}) - (\text{Error})} \times 100\right]_{\%}$$
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